Date: 21th February 2023
Object: A3101 – Instrument Data Sheet
Destination: Assiut Hydrocracking Complex – ANOPC – Egypt

ANOPC | T.EN TECHNIP ENERGIES

PROJ.: ASSIUT HYDROCRACKING COMPLEX
OWNER: ASSIUT NATIONAL OIL PROCESSING COMPANY(ANOPC)

MATERIAL REQUISITION No.
079254C MR |4|1|9|0|–|0|0|3
ITEM: 55–Z–001
SR Doc. CODE: A3101
PURCHASE ORDER N.: 079254A0166

T.EN TECHNIP ENERGIES | VENDOR DOCUMENT REVIEW

- ☐ 1 REVISE AND RESUBMIT
- ☐ 2 TO BE ISSUED AS FINAL PROVIDED COMMENTS ARE INCORPORATED
- ☒ 3 NO COMMENT – FINAL ISSUE
- ☐ 4 FOR INFORMATION ONLY

jfazioli - Mar 10, 2023

clean

Document n.	Date	Commitment n°
A3101-Instrument Data Sheet	20/02/2023	802-22

Rev.	00	Date	20/02/2023	Mod. object	First emission
Rev.	01	Date	06/03/2023	Mod. object	LT sensor – Solenoid valve english data sheet
Rev.	02	Date		Mod. object	
Rev.	03	Date		Mod. object	
Rev.	04	Date		Mod. object	
Installation site	Assiut (EGY)				
Scale	---				
Drawn by	M.A.	Sign			

INSTRUMENT DATA SHEET

WHEEL WASHING SYSTEM

Clean S.r.l.
Via Borgo Padova, 64
35012 Camposampiero (PD) - ITALY
www.clean-impianti.it
www.lavaruote.it
www.abbattimento-polveri.it
Tel. +39.049.9300500
fax +39.049.9320042

Customer

TECHNIP ENERGIES ITALY

Assistenza Clienti dall'Italia +39.049.9300.500

SGQ certificato secondo la norma UNI EN ISO 9001:2015

YouTube Watch our machines in action on the Clean YouTube Channel of Clean®: **CLEAN IMPIANTI**

List of main instruments

SUPPLIER	Model	Description	Tag/Note	Pag.
SEKO	**SPH3-WW-DJ**	PH sensor	Installed on lamella pack support frame	**3**
SEKO	**SPR040QM0000**	PH controller instrument	Installed on lamella pack support frame	**4-5-6-7**
TECNOUNO	**21W4KB250**	Solenoid Valve	1D55-EVY-5501 / water refilling	**8-9**
FINDER	**FINDER 72.A1.0.000.1001**	Floating sensors	1D55-LI-5531/5532/5533/5534/5535/5538	**10-11**
CEWAL	**M 50 RP**	Pressure gauge	Installed on "Y" filters	**12-13**
SEKO	**PVDF LEVEL PROBE**	Floating sensors for coagulant product and neutralizing product	1D55-LI-5536/5537	**14-15**

PH PROBES

PH PROBES_ SPH3_WW

seko

Features:

- Low maintenance sealed unit
- Gel filled reference cell
- S8 connection with PG 13,5 mm
- Glass Body
- Diaphragm open hole

Field Application:

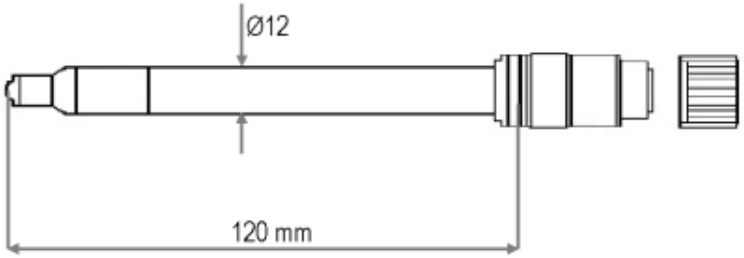
- Wast water
- Drinking Water
- Cooling Towers
- Fish farming
- Galvanic Process

- Features:
  - Range: pH 2÷12
  - Temperature: 0÷80 °C
  - Pressure: 6 Bar
  - Trasparten glass Body
  - **Double junction** with KCL Gel and **one open hole**.
  - S8 connector: PG13,5 mm mechanical connection and S7 electrical connection.
  - Batch production number.
  - Single Package with neutral carton box.
  - Neutral Label.

TECHNICAL CHARACTERISTICS

pH Range:	2 ÷ 12
Min. Conductivity:	5 µS/cm
Temp. Range:	80° C
Pressure Range:	up to 6 bar
Body material:	Glass
Diaphragm material:	Glass
Diaphragm type:	1 open hole
Mechanical Mounting:	PG 13.5 mm
Electrical Connection:	S7 electrical connection
Reference:	GEL
Storage temperature	+2 ÷ 50 °C (**do not freeze**)

DIMENSIONS



Controller Instrument
Kontrol 40 SERIES

seko

KONTROL 40

The Kontrol 40 series are single parameter controllers. These very user-friendly systems combine advanced performance and simple design. Single-parameter units are available in four different casings, ensuring perfect fit at the right price.

TECHNICAL CHARACTERISTICS

Graphic display and Keypad
Simultaneous value of the measure, Temperature and Relay status. 2-line, 16 character Alphanumeric Display. Four control keys for instrument calibration and configuration.

Enclosure Box and Power Supply
Four (4) mechanical box:
Wall mounting PP (IP65)
Panel mouting: 96x96 IP65 Front panel; 48x96 IP40; Din-Rail (6 modul) IP40
Universal Power Supply 100÷240 Vac 50/60 Hz and 24Vac/dc

Measure Input
High measuring resolution with probe quality control. A modular measuring system Chlorine measure in sea water application.

Current outputs 4÷20mA Galvanic isolation
One independent programmable Output Measures
Relay Outputs
Two (2) independent function, two Set point Measure, dry contact. Software-set alarm functions.
Routine function settings : ON/OFF, Timed or proportional

Digital Input
Dedicated and level input to disable all controller output functions.

APPLICATIONS

- Waste water
- Legionella disinfection
- Sea water
- Crate wash

Controller Instrument
Kontrol 40 SERIES

seko

- CIP
- Dioxide station
- Drinking water
- Cooling towers
- Swimming pool
- Boilers
- Reverse osmosis
- Galvanic process
- Irrigation

PRODUCTS KEY

S	**Instrument**							
CD	**Conductivity**							
FX	Flow rate							
CL	Potentiostatic Chlorine							
PR	pH/Orp and pH/Orp							
	040	Kontrol 40						
		D	**Box type DIN**					
		Q	box type 48x96					
		P	box type 96X96					
		L	box type 144X144					
		W	box type 144X144 (IP65)					
			A	**230 Vac**				
			B	24 Vac				
			C	115 Vac				
			M	Switching 80÷265 Vac				
				0	**FREE/CUSTOM**			
					0	**FREE/CUSTOM**		
						0	**FREE/CUSTOM**	
							0	**FREE/CUSTOM**
S	**CD**	**040**	**W**	**A**	**0**	**0**	**0**	**0**

Controller Instrument
Kontrol 40 SERIES

seko

PRODUCT LINE

	Ph/ORP	conductivity	Chlorine amperometric cell	Chlorine potentiostatic cell	Flow rate
SPR040	•				
SCD040		•			
SCL040				•	
SFX040					•

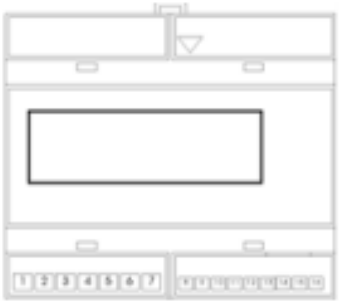
MEASURE RANGE

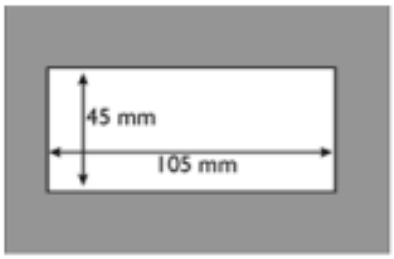
Measure	Description	Accuracy
pH	0 ÷ 14,00 pH	±0,1pH
ORP	±1500 mV	±5 mV
Conductivity	1÷50.000 µS	±5%
Flow Rate	0,00÷99.999 Liters/Sec.	±0,5Hz
Chlorine	0,00÷200.00 ppm	±0,01ppm
Temperature	0÷100°C (-32÷212 °F ±1,8°F)	±1,0°C

Controller Instrument
Kontrol 40 SERIES

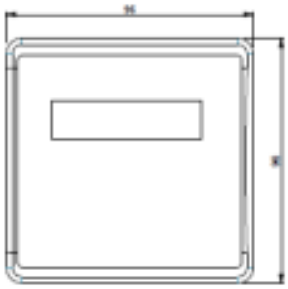
seko

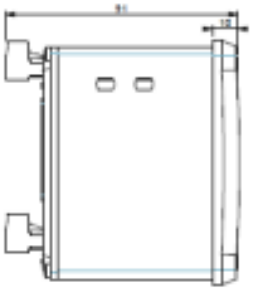
DIMENSIONS
Din rail IP40

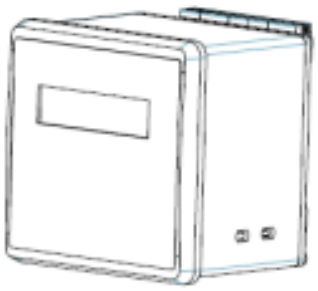




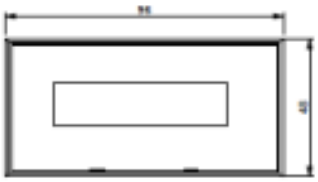
96x96 IP65Panel



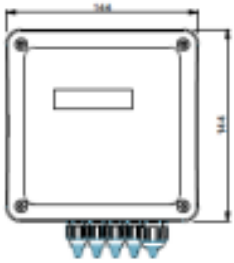


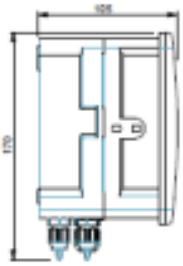


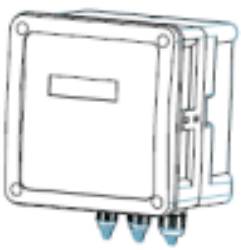
48x96 Panel version



Wall mounting IP65







Solenoid valve 2/2 way N.C. With pilot control - manual operation and closing velocity control

21W3K*B*190-MR ÷ 21W7K*B*500-MR

PRESENTATION:

S.V. with pilot control for interception of fluids compatible with the construction materials.
A minimum operational pressure of 0,2 bar is required.
The materials used and the tests carried out ensure maximum reliability and duration.

USE: Automation
Heating

PIPES: G 3/4 - G 2

COILS: 8W - Ø 13

BDA - BSA	155°C	(class F)
BDV	180°C	(class H)

COIL HOUSING AND COIL FORMER MATERIAL ARE MADE BY 100% VIRGIN MATERIAL.

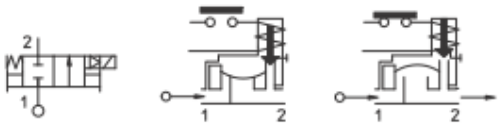
Max. allowable pressure (PS)

G 3/4 - G 1	25 bar
G 1 1/4 - G 2	16 bar

Ambient temperature:
See coils catalogue page for its compatibility.

Gaskets	Temperature		Medium
B=NBR (nitrile rubber)	- 10°C	+ 90°C	Air, inert gas, water
E=EPDM (ethylene-propylene)	- 10°C	+140°C	Water, low pressure steam
V=FKM (fluoroelastomer)	- 10°C	+140°C	Mineral oils (2°E), gasoline gas oil

For seals other than NBR replace the letter "**B**" with the ones corresponding to the other seals. E.I. 21W3**E**190-MR.



Pipe ISO 228/1	Code	Max viscosity		Ø	Kv	Power	Pressure		
							min	M.O.P.D.	
		cSt	°E	mm	l/mn	watt	bar	AC bar	DC bar
G 3/4	21W3K**B**190-MR	12	~ 2	19	140	8	0,2	16	16
G 1	21W4K**B**250-MR			25	190				
G 1 1/4	21W5K**B**350-MR			35	400			10	10
G 1 1/2	21W6K**B**400-MR			40	520				
G 2	21W7K**B**500-MR			50	750				

CE

CE Approval
(Pressure Equipment Directive 2014/68/EU)
for EV 21W5÷21W7

Solenoid valve 2/2 way N.C. With pilot control - manual operation and closing velocity control

21W3K*B*190-MR ÷ 21W7K*B*500-MR

PRESENTATION:

S.V. with pilot control for interception of fluids compatible with the construction materials.
A minimum operational pressure of 0,2 bar is required.
The materials used and the tests carried out ensure maximum reliability and duration.

USE: Automation
Heating

PIPES: G 3/4 - G 2

COILS: 8W - Ø 13
BDA - BSA 155°C (class F)
BDV 180°C (class H)

COIL HOUSING AND COIL FORMER MATERIAL ARE MADE BY 100% VIRGIN MATERIAL.

Max. allowable pressure (PS)
G 3/4 - G 1 25 bar
G 1 1/4 - G 2 16 bar
Ambient temperature:
See coils catalogue page for its compatibility.

Gaskets	Temperature		Medium
B=NBR (nitrile rubber)	- 10°C	+ 90°C	Air, inert gas, water
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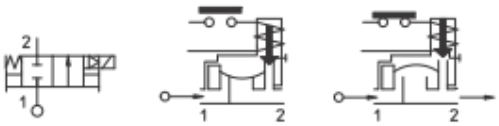

Pipe ISO 228/1	Code	Max viscosity		Ø	Kv	Power	Pressure		
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		cSt	°E	mm	l/mn	watt	bar	AC bar	DC bar
G 3/4	21W3K**B**190-MR	12	~ 2	19	140	8	0,2	16	16
G 1	21W4K**B**250-MR			25	190				
G 1 1/4	21W5K**B**350-MR			35	400			10	10
G 1 1/2	21W6K**B**400-MR			40	520				
G 2	21W7K**B**500-MR			50	750				

CE

CE Approval
(Pressure Equipment Directive 2014/68/EU)
for EV 21W5÷21W7

Float switch

Type 72.A1

Float switch with 2 watertight chambers, suitable for automatic pumping, professional plumbing systems and waste water. Counterweight (230 g) with cable grip, included.

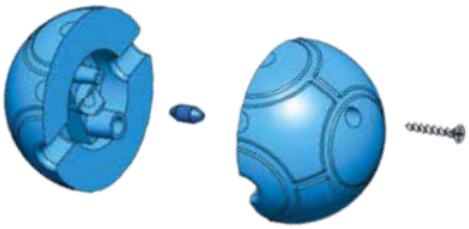
- Resistant to high pressures
- Emptying or filling functions
- Cable length 5 m, 10 m, 15 m or 20 m
- Cable material: NEOPRENE H07 RN F approved (TÜV)
  (Available in PVC - no agency approvals).

CE EAC

Type 72.A1.0000.xxxx

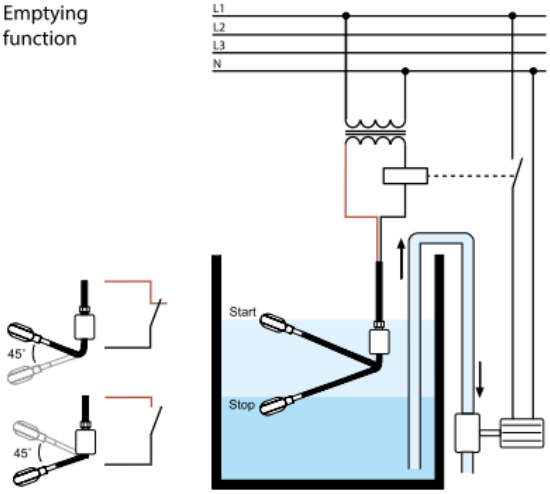
Contact configuration	1 CO (SPST)
Rated current	10 A (8 A)
Rated voltage	250 V AC
Protection degree	IP 68
Max liquid temperature	+ 50 °C
Max depth	40 m
Functions	emptying, filling
Cable material	PVC - H07 RN F
Body material	Polypropylene

Counterweight (230 g)
for Type 72.A1.
Included in the package.



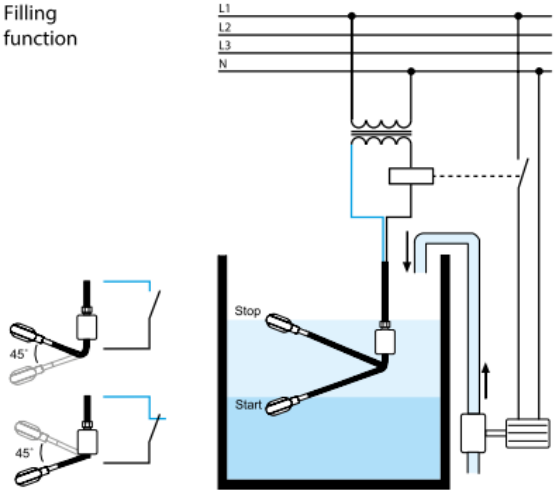
Easy to install.
Direct fixing to the cable to allow adjustment of the level and to ensure the appropriate excursion of the float - even in the case of turbulent water.

Emptying function



When black and brown wires are used, the circuit opens when the float is down and closes when the float is up.

Filling function



When black and blue/grey wires are used, the circuit opens when the float is up and closes when the float is up.

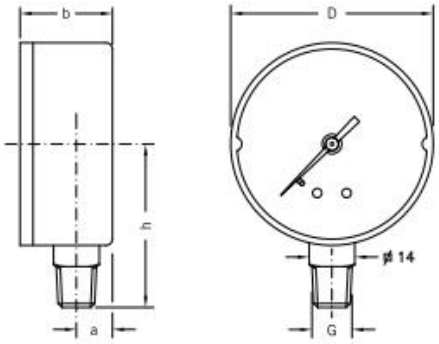
Product code	Description
72.A1.0.000.0501	Float switch, cable length 5 m in neoprene (H07 RN F)
72.A1.0.000.1001	Float switch, cable length 10 m in neoprene (H07 RN F)
72.A1.0.000.1501	Float switch, cable length 15 m in neoprene (H07 RN F)
72.A1.0.000.2001	Float switch, cable length 20 m in neoprene (H07 RN F)
72.A1.0.000.0500	Float switch, cable length 5 m in PVC
72.A1.0.000.1000	Float switch, cable length 10 m in PVC
72.A1.0.000.1500	Float switch, cable length 15 m in PVC
72.A1.0.000.2000	Float switch, cable length 20 m in PVC

MODEL INSTALLED

MANOMETRI A MOLLA BOURDON, ATTACCO RADIALE
versione standard DN 40–50–63

BOURDON SPRING PRESSURE GAUGES, BOTTOM CONNECTION
standard version DN 40–50–63

M 40 RP
M 50 RP
M 63 RP



> DIMENSIONI E PESI / SIZES AND WEIGHTS

MOD.	D	G	a	b	h	PESO/WEIGHT
M 40 RP	41 mm	R1/8"	10 mm	26 mm	36 mm	55 gr
M 50 RP	52 mm	R1/4"	11 mm	28 mm	45 mm	72 gr
M 63 RP	62 mm	R1/4"	11 mm	28 mm	50 mm	88 gr

> APPLICAZIONI

Manometri standard di uso generale per la misura della pressione di fluidi liquidi o gassosi purchè non altamente viscosi, cristallizzanti o corrosivi per leghe di rame e di stagno.

> PRINCIPALI SETTORI DI IMPIEGO

- impianti e apparecchiature per idrotermosanitaria
- impianti di riscaldamento
- pneumatica e idraulica
- automazione industriale
- apparecchiature tecnico industriali

> APPLICATIONS

They are suitable for measuring the pressure of liquid or gaseous fluids, provided the latter are not highly viscous, crystallising or corrosive to copper and tin alloys.

> MAIN FIELDS OF APPLICATION

- plumbing equipment and systems
- heating systems
- pneumatics and hydraulics
- industrial automation
- industrial items and technical equipment

> RIFERIMENTI NORMATIVI

- EN 837-1
  classe di precisione 2,5
- direttiva CE 2014-68 PED
- grado di protezione IP31 secondo EN 60529

> NORMATIVE REFERENCES

- EN 837-1
  2.5 precision class
- directive CE 2014-68 PED
- degree of protection IP31 according to EN 60529

> LIMITI DI IMPIEGO

Temperature
Sul corpo del manometro -40 ÷ +70 °C
Del fluido in pressione max 90 °C
Pressioni
Fino a 3/4 del valore di fondo scala per pressioni statiche
Fino a 2/3 del valore di fondo scala per pressioni fluttuanti
Fino al valore di fondo scala per brevi periodi
Fluidi
Liquidi o gassosi non corrosivi per leghe di rame, non cristallizzanti, non altamente viscosi
Non adatti per ossigeno

> OPERATING LIMITS

Temperatures
On the body of the pressure gauge -40 ÷ +70 °C
Of pressurized fluid max 90 °C
Pressure
Up to 3/4 of the full scale value for static pressures
Up to 2/3 of the full scale value for fluctuating pressure
Up to the full scale value for short periods
Fluids
Liquid or gaseous non-corrosive to copper alloys, not highly viscous, not crystallising
Gauges not suitable for oxygen

cewal

> CARATTERISTICHE COSTRUTTIVE

- cassa in ABS antiurto
- vetrino in metacrilato ad alta trasparenza
- quadrante bianco in ABS (DN 50 e 63) o alluminio preverniciato (DN 40)
- grafica a due colori: doppia scala bar (in nero) + psi (in rosso)
- indice nero in plastica
- attacco in ottone
- molla Bourdon a "C" in lega di rame per pressioni di fondo scala fino a 40 bar, molla a spirale in bronzo fosforoso per pressioni superiori
- movimento in ottone lega orologeria (OT59)

> CONSTRUCTION FEATURES

- shockproof ABS case
- crystal clear methacrylate window
- prepainted aluminium white dial (DN 40) or in ABS (DN 50 and 63)
- two-colour graphics, double scale: bar (black) psi (red)
- black plastic indicator
- brass coupling
- "C" shaped Bourdon spring in copper alloy for full scale pressures up to 40 bar, spiral spring in phosphorous bronze for higher pressures
- movement in watch brass alloy (OT59)

PVDF level probe

Data Sheet

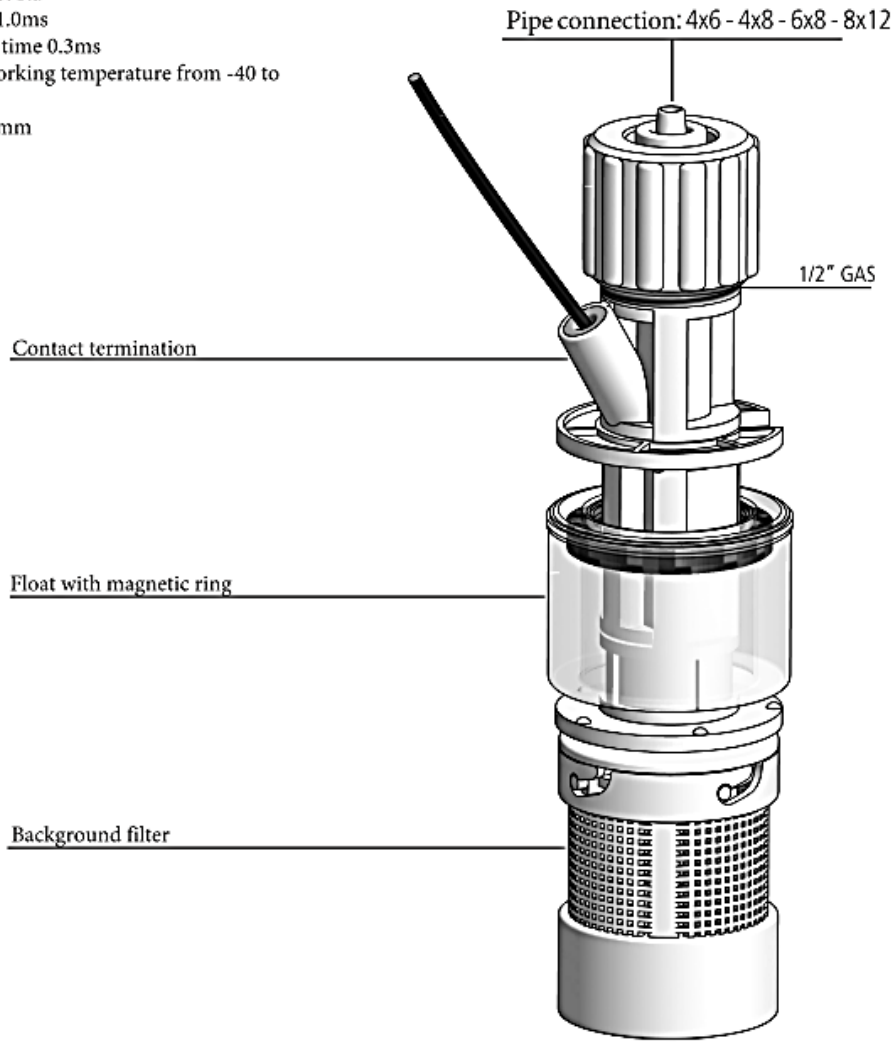
Compact level sensor with "reed" type magnetic contact.
Resistant to high temperatures, independent of the density, opacity, conductivity or dielectric constant of the liquid.
Operation between 0 and 60°C.
Available in the version with "BNC" terminal connector or with wire termination for terminal block.

CONSTRUCTION MATERIALS

- Body completely in PVDF
- Sealing with epoxy resin
- Contact wire sheath in PE

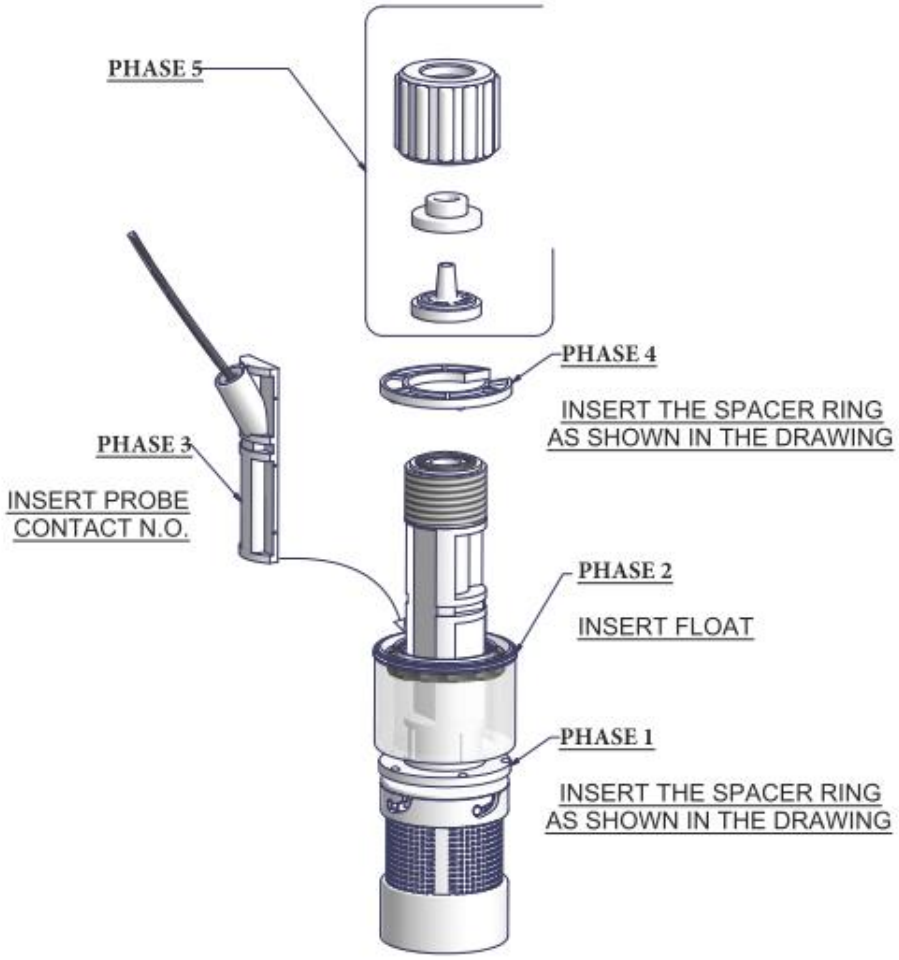
REED CONTACT TECHNICAL DATA

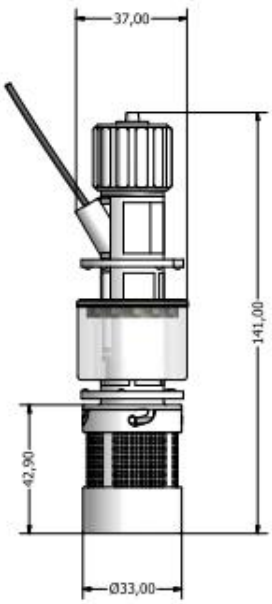
- Maximum power 10W
- Material Contact Ru
- Response time 1.0ms
- Contact release time 0.3ms
- Reed contact working temperature from -40 to +125°C
- Total length 20mm



PVDF level probe

Data Sheet





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